	Contents	Reference to last Measurement
pth 6	7	8

BR-280/2016/17

SBR - 55/17-18 dt - 30/6/17

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354633

Serial No. I & Final Bill

Name of Work Emergency water supply to drinking of borewells erection of Pump - motor in TATA nagara ward no. 08: Kodigehalli.

From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work 13/11/17

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Esti. cost:- Rs. 4,99,000/-						
	JDS code no:- 008-14-000043						
	AS/NO:- Addl. comm (Y)/AS/511/2013-14, dt:					23/12/2013.	
	TS/NO:- EE/(BYP)/TS/258/13-14, dt:					23/1/2013.	
	Work order no:- EE/BTP/KRIDL/W.O/567/2013-14,					dt: 28/02/2014	
	Agency:- KRIDL						
	Date of completion:- 26/4/17						
	1) Geophysical investigation of site for sinking borewell for supplying drinking water						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	to the habitation either through the hand pump, MLDS or RLDSS by rectified electrical sounding by adopting Gunn or Schlumberger method including reconnaissance survey of geological formation geophysical investigation resistivity of existing ground water in the vicinity its quality and acceptability, of the area, indicating the locality the location of site, recommended depth of 1.0 mtrs in consolidated formation for proper seating of casting pipe. depth of drilling required to cover full depth of aquifer proposed to be tapped probable yield and other information required. including transportation and accomodation to coordinating engaging technical personal and labour required etc..						
	= Qty vide Pre measurement - as MR No: 2585/14-15 page No: 2584/73						
		1.00 No	Sft.	1957.00/No		Rs.	1957.00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date	Full description, etc, of work
1	2
21	Supply of borewell of capacity 150 PSIG [illegible] under upto 200 m. and threading including charges and cost of depth centre a min casing pipe casing
(a)	0.00 to 50.00 m

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354634

al No. ..... From..... To.....

ne of Work .....

ne of Contractor of nature of Agency .....

e of commencement of work .....

	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	Sinking of borewell of 165mm dia clear casing with fast hydraulic rig of capacity 250 PSI or above 400 CFM and above, in all strata including dust random upto 200 ft. fixing of casing pipe collars, and cap with necessary valves, including and threading including transportation of rig and supporting crew charges and cost of consumables. etc complete including yield testing after steel depth with a minimum work in one completion for an hour. (excluding cost of casing pipe collars cap etc:)						
	= Qty vide provisional sanction MB No: 4774/2 Page No: 35-84 74 to 4774/2						2585/14-15
2	0.00 to 50.00 mtrs	50.00 Rmtr			Rs. 295.61/Rmtr	Rs.	14781.00

Banglore

BOOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
	...p, MWS or PWSS by ... or Schlumberger method ... geophysical investigation ... vicinity its quality ... including the location of ... consolidated formation for proper ... required to cover full ... probable yield and after ... and accumulation to counter balance ...		
	... MB No: 2585/14-15		
	...: 2584 73/2		
	...957.00/No	Rs.	1957.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(b) 50.00 to 100.00 mtr	50.00 Mtr			@ Rs. 390.37/ Mtr	Rs.	19519.00
	(c) 100.00 to 150.00 mtr	50.00 Mtr			@ Rs. 434.66/ Mtr	Rs.	21733.00
	(d) 150.00 to 200.00 mtr	50.00 Mtr			@ Rs. 477.92/ Mtr	Rs.	23896.00
	(e) 200.00 to 250.00 mtr	50.00 Mtr			@ Rs. 528.39/ Mtr	Rs.	26420.00
	Additional Item						
	(a) 20.00 to 30.00 mtr	10.00 Mtr			@ Rs. 44.34/ Mtr	Rs.	443.00
	Above 30.00 mtr	20.00 Mtr			@ Rs. 88.68/ Mtr	Rs.	1774.00

erial No. .....
ame of Work .....
ame of Contractor of nature of Ag
ate of commencement of work ....

Date	Full description, etc, of wo
	2
(b)	Above 30.00 mtr
3)	Supplying of IS grade of steel fo 4270: 2001 and ash confirming to basic oxygen proce confirming to IS 55 2001, and free otter defects. free fro

OOK

Depth 6	Contents 7	Reference to last Measurem 8
37/ Rmtr	Rs.	19519.00
4.66/ Rmtr	Rs.	21733.00
77.92/ Rmtr	Rs.	23896.00
28.39/ Rmtr	Rs.	26420.00
34/ Rmtr	Rs	443.00
28.68/ Rmtr	Rs.	1774.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354635

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
(5)	Above 30.00 mtr		11.00 mtr	Dft. 117.11/ mtr		Rs.	1288.00
3)	Supplying of ISI marks 175 mm nominal bore plain end steel casing pipe- of grade of steel fe 410 of wall thickness 5.4 mm thick conforming to IS 4270: 2001 and latest amendments electric resistance welded steel tubes suitable for conforming to IS 1387/1993 and manufactured by basic oxygen mouth electric or basic oxygen process in random length of 5 to 7 mtrs, both end.. threaded — conforming to IS 554/1985, one end fixed with socket conforming to IS 4270: 2001, and the other end with thread pitch. all pitch. sheet be reasonably free from defects. the tube sheet be reasonably straight sheet be with ISI marking						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	weighing 25.10 kg/mtr. = Qty vide premeasurement ref MB No: 2585/14-15 Page no: 258474/2 61.00 mtr @ Rs. 137.40/mtr Rs. 8382.75						24568-A
4)	Providing and fixing in position galvanised / mild steel tubes (medium grade) 50 mm dia nominal bore with all fittings (cost of work in trenches to be measured and paid) for separately including cost of all materials, labour, charges, HOM & equipments and testing specification = Qty vide premeasurement ref MB No: 2585/14-15 Page no: 258475 245.00 Rmtr @ Rs. 298.92/Rmtr Rs. 73235.00						73235

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
5)	Providing 175 mm dia = Qty vi
6)	Providing 175 mm dia = Q

BOOK

ons		Contents	Reference to last Measureme
readth 5	Depth 6	7	8
ref MB NO: 2585/14-15			24568-4
8475/2		402.75	
Rft. 135.00/ mt		Rs.	80825.00
/ mild steel tubes (medium			
fittings (each coat in trench			
including cost of all materials.			
testing specification			
ref MB NO: 2585/14-15			73235
58475			
Rft. 298.92/ Rmtr		Rs.	73235.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354636

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
5)	providing 175mm dia M.S collar.						
	= Qty vide Recipient ref MB NO: page NO: 58475					2585/14-15	
		10.00 Each			Rft. 150.00/ each	Rs.	1500.00
6)	providing 175mm dia MS cap.						
	= Qty vide Recipient ref MB. NO: 2585/14-15 page NO: 58475						
		1.00 Each			Rft. 100.00/ each	Rs	100.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
7)	Supplying and drawing 3 core flat PVC sheathed cable, multistrand with electrolytic grade copper with load registance. conductor confirming to IS: 8130 - 1984 and virgin grade. PVC insulation of Copper Colour Extruded PVC sheathed suitable for working voltage upto 1100 volts. = Qty vide Measurement Bk MB No: 2585/14-15 Page No: 2584/35/c		440.00 mtr		@ Rs. 151.00/mtr		Rs. 73990.00
8)	Supply and delivery at site brand new texmo / incab / Lubi / Sabar / Kalamba / Calcutta / Walchandnagar / Radha make suitable, vertical installation by close coupled by means of 150 mm dia. Borewell, comprising single stage or multistage CI pump stainless steel Complying to relevant ISI.						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
	2
	totally enclosed and submersible, induction motor suitable for supply, fitted with cast gunmetal non return valve from an integral with = Qty
9)	Supplying and delive

BOOK

ions		Contents	Reference to last Measurem
Breadth 5	Depth 6	7	8
c sheathed		submersible pump-	
de. copper		with flexible.	
nfining to		table. 3 Core. 5 q	
PVC insulation at power			
for cooling		voltage upto 1000 volts.	
ly as per MB No: 2585/14-15			
No: 258477/1		Rs. 73990.00	
Qty. 1.00/Nos			
nos 4 inch/ inch/ Metric/ saber/			
suitable. vertical installation			
stge or multistge CF pump			
c.			
ding steel		Complying to specification.	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354637

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	totally enclosed and submersible. induction motor. suitable. for supply fitted with cable gland run reborn from an integral unit with						
	= Qty vide Requisition as per MB No. 2585/14-15 Page No: 258477/1	1.00 No		Qty. 52000.00/No		Rs. 52000.00	
	2) supplying and delivery at site brand new star/ bijlee/ Lobus/ Kirloskar/						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurem
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	G.I. control, best indigenous, make, Combined supply cum control Panel board with of size 1200 x 600 x 350mm minimum and water proof. free with sheet metal two detachable doors, suitable for operation on 3Ph, 50 Hz, 380/440 volts, AC supply, with spring loaded Label holding device with a key fit. should be provided with the door, canopy, apron lugs, with stays, shall be provided the combined supply unit cum, control panel board with suitable for operation on 3Ph, 50 Hz, 380/440 volts. AC supply, shall be complete Sft, complete the Panel board shall be fabricated on single, with in the above, complete panel board for suitable pumps with star delta starter and door type 10 HP to 25 HP.						
	Neo Sarees =	1	1			= 1.00	
	Existing Sarees	1	1			= 1.00	
						2.00 Nos	
					Sft. 10000.00	Rs 20000.00	

rial No. .....
me of Work .....
me of Contractor of nature of Agency
te of commencement of work .....

ate	Full description, etc, of work
	2
10	Sceply and fixing 5 than 15mm thick ed fixing free save of
11	Supply 1.1 KV cla including earth lead

BOOK

ns		Contents	Reference to last Measureme
eadth 5	Depth 6	7	8
sted	supply, sum control Panel		
sum	industrially strong main		
o detachable door suitable			
AC supply.	with spring loaded		
ould be provided with the			
uld be provided the combined			
ub suitable for operation on			
ll be consists Elf, complete free			
plete free Panel board shall be			
ouplete panel board for suitable			
door type 10 HP to 25 HP.			
	= 1.00		
	= 1.00		
	2.00 Nos		
Rs. 10000.00		Rs 20000.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B
354638

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
10)	Supply and fixing 500 x 500 x 65mm Polished wood board made of ms ban						
	than 1.5mm thick metrous plate, duce tod provided for plating or other						
	tod fixing free sale of the value imp through both. and mult						
		2 nos				= 2.00	
						2.00 Each	
				Rs. 275.00	each	Rs. 550.00	
11)	Supply 1.1 KV class of cable from nearest BESCOM pole to Panel board						
	including earth leads and mat restoration & cover. 16 sqmm.						
		1 x 1	24.00			= 24.00	
				150		24.00 Mtr	3600.
				Rs. 5.00	/mtr	Rs 120.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
12	Labour charges for laying by agency in existing trench as required.	1×1	of 1.1 Km class of pipe / stoneware pipe			cable, ceiling, supplied on wall/on Pole = 14.0 14.0 mtr @ Rs. 5.00/mtr Rs. 120.00	
13	supplying and fixing of porcelain two channel cleat with nuts, bolts and washers etc, existing wooden / panel complete	4×1				= 4.0 4.0 each @ Rs. 219.00/each Rs. 876.00	
14	supplying and fixing 50 mm non-return valve of vertical type of approved make including cost of all materials, labour, and tools & equipments etc complete as per specification loads.						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2
15	supplying and ... bottom board, ... required. For new bottom
16	BBS Lom depos...

T BOOK

nsions		Contents	Reference to last Measurem
Breadth 5	Depth 6	7	8
		for class of stone pitt/on wall/m Pole	cable, cable, supplied
		= 24.0	
		24.0 mtr	
. 5.0/mtr		Rs. 120.0	
		= 4.0	
		4.0 each	
219.0/each		Rs. 876.0	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354639

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		4x1				= 4.0	
						4.0 nos	
				Rs. 1530.0		Rs. 6120.0	
5)	supplying and fixing miniature circuit breaker on existing MCB distribution boards. wiring necessary	1x1	fixing			= 1.0	
	required.					1.0 each	
	For new boards			Rs. 1075.0		Rs. 1075.0	
6)	BESCOM deposit charges and miscellaneous.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						h.	9500.00
17)	cutting of road surface for pipeline trench. and disposing of the excavated stuff as directed including barricading danger lighting etc.; in the centre country road.						
		Qty vide previous measurement ref MB No: 2585/14-15 page no. 2584/75/2					
		1.80 m	Rft.	497.14/cum		h.	895.00
18)	Earth work Excavation for lay and electrical conduits in width, in hard soil not	foundation of buildings water supply sanitary taken in pits or in trench 1.5 m at above exceeding 1.5 m in depth including shoring the					

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
	bottom. and sides of edges of excavation with Qty vide	
		3.6
19)	providing and installing pipe and special. at level trues to line, level and including jointing of appr clamps. including excavg	

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NT BOOK

mensions			Contents	Reference to last Measurement
	Breadth 5	Depth 6	7	8
			h. 9500.00	
ey trenches and disposing of the barricading charges complete etc.,				
trenches vide MB No: 2585/14-15				
No: 2584/35/2				
Sh. 897.14/cum			h. 895.00	
ing of buildings cooling supply pipelines				
pits or in trenches 1.5 m & above				
deep 1.5 m in depth including shoring the				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354640

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	bottom and sides of pits and trenches including the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete:						
	Qty vide Measurements rec MB No: 2585/14-15 page No: 25876	3.60 m³			Sh. 198.25/cum		h. 714.00
9/35	providing and installing at site of work PCC pipes including cost of pipes and specials and labour including lowering into trenches, laying, jointing, testing to line, level and grade including making at joints leak proof including jointing of approved type with all labour and lifts charges complete clamps including excavating the pits around to a depth not less than 15 cm						

Bangalore

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	with ground or suitable couplers. pvc pipe etc complete.						
						Qty vide premeasurement by MB No: 2384/14-15 page no: 2384/76	
			40.0			Rmtr @ Rs. 117.00/Rmtr	Rs. 4680.00
20/	Refilling available earth around pipe line. cable in layers not exceeding 20 cm. in depth, consisting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete & for specification						
						Qty vide same as item no (12) = 3.60 / 3.60 m³	
						@ Rs. 53.00/cum	Rs. 191.00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
21/	Disposing of Excavated and extra soil as directed
	Qty vide
	Rs 30/5/17
	Add 11% GST

OOK

dth	Depth 6	Contents 7	Reference to last Measureme 8
		from the Excavation &c.	
ry	MB No: 2385/14-15		
84 %			
17.50 /Metr		Rs.	4680.00
cubic in layers not exceeding			
layer by raising after			
to 1.5 m: including cost of			
0 (12) =	3.60		
	3.60 m		
0/cum		Rs.	191.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354641

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
30/1	Disposing of excavated earth to the final place of disposal with all lead and lift as directed by Works						
	Qty vide Item no (17)				=	1.80	192.00
						1.80 m	
						Rs.	208.00
							438510.00
					Total Rs.		385717-00
	Add 11% WORK charges				Rs		48236.00
							42429-00
	Add 1% Third party charges Rs						4385.00
					Grand total Rs		491137.00
							428146-00

Verified
30/1/17
S.O. (W.R.)

Recd
30/1/17

26/4/17

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate :-						
	* Work done is satisfactorily						
	* All debris cleared from the work spot by contractor own vehicle						
	* There are no deficiencies in the work done.						
	26/4/17						
	Assistant Executive Engineer, Kodigehalli Division, Yelahanka Z B.B.M.P., Bangalore.						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
	2
	ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 428
	ಗಳನ್ನು ಪಾಸು ಮಾಡಿದೆ : ಇದರಲ್ಲಿ ರೂ.
	ಮೊದಾಗಿ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮ
	ರೂ. Three lakh 8
	nine hundred nine
	ಬಿಲ್ ಮೊದಾಗಿ ಮಾಡಲಾಗಿದೆ
	ಲೆಕ್ಕಾಧಿಕಾರಿ
	ಬ್ಯಾಡರಾಮಯ್ಯನಪಾಳ್ಯ
	ಬೃ.ಬ.ಮ.ಪಾ

OOK

dth	Depth 6	Contents 7	Reference to last Measurement 8

M. A. R. Measu) No. B

354642

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ 428146-00 ಗಳನ್ನು ಹಾಸು ಮಾಡಿದೆ : ಇದರಲ್ಲಿ ರೂ 56156-00 ಹೊದಾಣಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು 371990-00 ರೂ Three lakh Seventy one thou nine hund ninety 0 ಚೆಕ್ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ ಲೆಕ್ಕಾಧಿಕಾರಿಗಳು ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ ಬೃ. ಪ. ಮಂ. ಪಾ ಕಾ. ಪಾ. ಅ. ಬ್ಯಾಟರಾಯನಪುರ ವಿ ಬೃ. ಪ. ಮಂ. ಪಾ 30/01					Total Rs: 428146-00 IT- 8563-00 VAT- 17126-00 CM- 4282-00 CBF- 428-00 FSD- 21407-00 Fine. 4350-00 Ads 56156-00 Comp. 3.71.990-00	

Bangalore

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